

[illegible]

```

0001 0 %TITLE 'STR$$CHECK_STATUS -Check status and convert to STR$ status'
0002 0 MODULE STR$$CHECK_STATUS ( ! Check status and convert to STR$ status
0003 0
0004 0 IDENT = '1-003' ! File: STRCHESTA.B32 Edit: RKR1003
0005 0
0006 0 ) =
0007 1 BEGIN
0008 1
0009 1 *****
0010 1 *
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0028 1 *
0029 1 *
0030 1 *****
0031 1
0032 1
0033 1 ++
0034 1 FACILITY: String support library
0035 1
0036 1 ABSTRACT:
0037 1
0038 1 This module contains a single routine which inspects the
0039 1 incoming status ( usually a LIB$ or SS$ status) and converts
0040 1 it into the appropriate STR$ status. If it is one of the
0041 1 fatal LIB$ statuses, the corresponding STR$ status gets
0042 1 signalled.
0043 1 Unrecognized statuses are left alone.
0044 1
0045 1 ENVIRONMENT: Runs at any access mode - AST reentrant
0046 1
0047 1 AUTHOR: R. Reichert, CREATION DATE: 3-MAY-1981
0048 1
0049 1 MODIFIED BY:
0050 1
0051 1 1-001 - Original. RKR 3-MAY-1981
0052 1 1-002 - Revise what error statuses get signaled. RKR 3-SEP-1981.
0053 1 1-003 - Add explicit external declaration for LIB$STOP.
0054 1 RKR 4-NOV-1981.
0055 1
0056 1 --
0057 1

```



```
59 0058 1 $SBTTL 'Declarations'
60 0059 1
61 0060 1 SWITCHES:
62 0061 1
63 0062 1
64 0063 1 SWITCHES ADDRESSING_MODE (EXTERNAL = GENERAL,
65 0064 1 NONEXTERNAL = WORD_RELATIVE);
66 0065 1
67 0066 1 LINKAGES:
68 0067 1
69 0068 1 REQUIRE 'RTLIN:STRLNK'; ! The linkage declarations
70 0253 1
71 0254 1 TABLE OF CONTENTS:
72 0255 1
73 0256 1
74 0257 1 FORWARD ROUTINE
75 0258 1 STR$$CHECK_STATUS_R2 : STR$$CHECK_STATUS_LINKAGE;
76 0259 1
77 0260 1
78 0261 1 INCLUDE FILES:
79 0262 1
80 0263 1
81 0264 1 LIBRARY 'RTLSTARLE'; ! System symbols, typically from
82 0265 1 SYSSLIBRARY:STARLET.L32
83 0266 1 REQUIRE 'RTLIN:RTLPSECT'; ! Define PSECT declarations macros
84 0361 1
85 0362 1 MACROS:
86 0363 1
87 0364 1 NONE
88 0365 1
89 0366 1 EQUATED SYMBOLS:
90 0367 1
91 0368 1 NONE
92 0369 1
93 0370 1 FIELDS:
94 0371 1
95 0372 1 NONE
96 0373 1
97 0374 1 PSECTS:
98 0375 1
99 0376 1 DECLARE PSECTS (STR); ! Declare psects for STR$ facility
100 0377 1 OWN STORAGE:
101 0378 1
102 0379 1 NONE
103 0380 1
104 0381 1 EXTERNAL REFERENCES:
105 0382 1
106 0383 1
107 0384 1 EXTERNAL ROUTINE
108 0385 1 LIB$STOP; ! to signal errors
109 0386 1
110 0387 1 EXTERNAL LITERAL ! Condition value symbols
111 0388 1 LIB$-INSVIRMEM, ! Insufficient virtual memory
112 0389 1 LIB$-INVSTRDES, ! Invalid string descriptor
113 0390 1 LIB$-INVARG, ! Invalid argument
114 0391 1 LIB$-STRTRU, ! String truncated
115 0392 1 LIB$-WRONUMARG, ! Wrong number of arguments
```

STR\$CHECK_STAT STR\$CHECK_STATUS -Check status and convert to I 16
1-003 Declarations 16-Sep-1984 01:31:12
14-Sep-1984 12:40:01

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[LIBRTL.SRC]STRCHESTA.B32;1

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:	116	0393	1	STR\$_NORMAL,	:	Success
:	117	0394	1	STR\$_INSVIRMEM,	:	Insufficient virtual memory
:	118	0395	1	STR\$_ILLSTRCLA,	:	Illegal string class
:	119	0396	1	STR\$_TRU,	:	Truncation
:	120	0397	1	STR\$_WRONUMARG;	:	Wrong number of arguments
:	121	0398	1			

```

123 0399 1 %SBTTL 'STR$$CHECK STATUS_R2 - Check Status'
124 0400 1 GLOBAL ROUTINE STR$$CHECK_STATUS_R2 ( ! Check status
125 0401 1
126 0402 1     IN_STATUS
127 0403 1
128 0404 1         ) : STR$$CHECK_STATUS_LINKAGE =
129 0405 1
130 0406 1  !++
131 0407 1  FUNCTIONAL DESCRIPTION:
132 0408 1
133 0409 1      This routine inspects the incoming status. If it is one of
134 0410 1      a recognized set of fatal LIB$ statuses, the corresponding
135 0411 1      STR$ status is signalled. Some LIB$ statuses are converted
136 0412 1      to the corresponding STR$ status. If the status is unknown,
137 0413 1      it is simply returned.
138 0414 1
139 0415 1  CALLING SEQUENCE:
140 0416 1
141 0417 1      STR$$CHECK_STATUS_R2 ( IN_STATUS.rlc.v )
142 0418 1
143 0419 1  FORMAL PARAMETERS:
144 0420 1
145 0421 1      IN_STATUS.rlc.v      The input status
146 0422 1
147 0423 1  IMPLICIT INPUTS:
148 0424 1
149 0425 1      NONE
150 0426 1
151 0427 1  IMPLICIT OUTPUTS:
152 0428 1
153 0429 1      NONE
154 0430 1
155 0431 1  COMPLETION STATUS:
156 0432 1
157 0433 1      OUT_STATUS.wlc.v      The output status
158 0434 1
159 0435 1
160 0436 1  SIDE EFFECTS:
161 0437 1
162 0438 1      If it finds IN_STATUS to be LIB$ INSVIRMEM, LIB$ INVSTRDES,
163 0439 1      LIB$ WRONUMARG or LIB$ INVARG it signals the corresponding STR$
164 0440 1      condition code.
165 0441 1
166 0442 1  --
167 0443 1
168 0444 2  BEGIN
169 0445 2
170 0446 2  LOCAL
171 0447 2      OUT_STATUS ;          ! the status returned
172 0448 2
173 0449 2  OUT_STATUS = (SELECTONE .IN_STATUS OF
174 0450 2      SET
175 0451 2      [SS$ NORMAL,
176 0452 2      STR$_NORMAL]:      .IN_STATUS ; ! most common first
177 0453 2
178 0454 2      [LIB$_STRTRU]:      STR$_TRU ;  ! next most common
179 0455 2
  
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: 180      0456 3      [LIB$-INSVIRMEM]: LIB$STOP (STR$-INSVIRMEM) ; !least
: 181      0457      [LIB$-INVSTRDES]: LIB$STOP (STR$-ILLSTRCLA) ; !common
: 182      0458      [LIB$-INVARG]: LIB$STOP (STR$-ILLSTRCLA) ;
: 183      0459      [LIB$-WRONUMARG]: LIB$STOP (STR$-WRONUMARG) ;
: 184      0460
: 185      0461      [OTHERWISE]: .IN_STATUS ; ! unlikely
: 186      0462      TES );
: 187      0463      RETURN .OUT_STATUS;
: 188      0464 1      END; ! End of routine STR$$CHECK_STATUS_R2

```

.TITLE STR\$\$CHECK_STATUS STR\$\$CHECK_STATUS -Check status and convert to

.IDENT \1-003\

.EXTRN LIB\$STOP, LIB\$-INSVIRMEM
 .EXTRN LIB\$-INVSTRDES, LIB\$-INVARG
 .EXTRN LIB\$-STRTRU, LIB\$-WRONUMARG
 .EXTRN STR\$-NORMAL, STR\$-INSVIRMEM
 .EXTRN STR\$-ILLSTRCLA, STR\$_TRU
 .EXTRN STR\$-WRONUMARG

.PSECT _STR\$CODE, NOWRT, SHR, PIC, 2

52	50	DO 00000	STR\$\$CHECK STATUS R2::		
			MOVL	R0, R2	: 0400
01	52	D1 00003	CMPL	IN_STATUS, #1	: 0451
	5C	13 00006	BEQL	6\$	
00000000G	8F	52 D1 00008	CMPL	IN_STATUS, #STR\$_NORMAL	
	53	13 0000F	BEQL	6\$	
00000000G	8F	52 D1 00011	CMPL	IN_STATUS, #LIB\$_STRTRU	: 0454
	08	12 00018	BNEQ	1\$	
50 00000000G	8F	DO 0001A	MOVL	#STR\$_TRU, OUT_STATUS	
	05	00021	RSB		
00000000G	8F	52 D1 00022 1\$:	CMPL	IN_STATUS, #LIB\$_INSVIRMEM	: 0456
	08	12 00029	BNEQ	2\$	
00000000G	8F	DD 0002B	PUSHL	#STR\$_INSVIRMEM	
	29	11 00031	BRB	5\$	
00000000G	8F	52 D1 00033 2\$:	CMPL	IN_STATUS, #LIB\$_INVSTRDES	: 0457
	09	13 0003A	BEQL	3\$	
00000000G	8F	52 D1 0003C	CMPL	IN_STATUS, #LIB\$_INVARG	: 0458
	08	12 00043	BNEQ	4\$	
00000000G	8F	DD 00045 3\$:	PUSHL	#STR\$_ILLSTRCLA	
	0F	11 0004B	BRB	5\$	
00000000G	8F	52 D1 0004D 4\$:	CMPL	IN_STATUS, #LIB\$_WRONUMARG	: 0459
	0E	12 00054	BNEQ	6\$	
00000000G	8F	DD 00056	PUSHL	#STR\$_WRONUMARG	
	01	FB 0005C 5\$:	CALLS	#1, LIB\$STOP	
	05	00063	RSB		
50	52	DO 00064 6\$:	MOVL	IN_STATUS, OUT_STATUS	: 0461
	05	00067	RSB		: 0464

; Routine Size: 104 bytes, Routine Base: _STR\$CODE + 0000

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: 189      0465 1 END      ! End of module STR$$CHECK_STATUS
: 190      0466 1

```

STR\$\$CHECK_STAT STR\$\$CHECK_STATUS -Check status and convert to L 16
1-003 STR\$\$CHECK_STATUS_R2 - Check Status 16-Sep-1984 01:31:12
14-Sep-1984 12:40:01

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[LIBRTL.SRC]STRCHESTA.B32;1

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: 191 0467 0 ELUDOM

PSECT SUMMARY

Name	Bytes	Attributes
_STR\$CODE	104	NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	1	0	581	00:00.8

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACE/LIS=LISS:STRCHESTA/OBJ=OBJ\$:STRCHESTA MSRC\$:STRCHESTA/UPDATE=(ENH\$:STRCHESTA)

: Size: 104 code + 0 data bytes
: Run Time: 00:03.4
: Elapsed Time: 00:16.5
: Lines/CPU Min: 8339
: Lexemes/CPU-Min: 25500
: Memory Used: 50 pages
: Compilation Complete

0213 AH-BT13A-SE
VAX/VMS V4.0

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